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In the claims,

Clean version of the amended claims(s), pursuant to 37 CFR 1.121(c)(1)(i):

Please amend claim 1, 21, 41, and 67 as follows:

1. (Twice Amended) In a digital imaging system, a method for distributed digital image processing, the method comprising:

recording luminosity information at a first device, for representing an image that has been digitally captured at the first device;

C1

without performing color interpolation at the first device, generating compressed luminosity information at the first device by applying a wavelet transform compression to individual bit planes that comprise the luminosity information, follow by applying quantization and compression to the luminosity information;

transmitting said compressed luminosity information to a second device;

6/26/03

restoring said luminosity information from said compressed luminosity information at the second device; and

converting said luminosity information at the second device into a color image, including performing color interpolation at the second device.

21. (Twice Amended) In a digital imaging system, a method for deferring digital image processing, the method comprising:

recording sensor information from an image sensor at a first device, for representing an image that has been recorded at the image sensor of the first device;

C2

compressing said sensor information prior to color processing by applying a transformation compression to individual bit planes that comprise the sensor information, for generating compressed sensor information at the first device;

without having performed color processing at the first device, transmitting said compressed sensor information to a second device; and

decompressing said compressed sensor information at the second device, whereupon said sensor information may thereafter be processed into a color image.

41. (Twice Amended) An imaging system providing deferred image processing, the system comprising:

an imager having a sensor for recording luminosity information for a visual image captured by the imager, said luminosity information comprising luminosity values recorded by the sensor;

a compressor module for compressing said luminosity information by applying a transformation compression to individual bit planes that comprise the luminosity information, for generating compressed luminosity information at the imager without having performed color processing;

a communication link for transmitting said compressed luminosity information to a target device; and

a decompression module for decompressing said compressed luminosity information at the target device, whereupon said luminosity information may thereafter be processed into a color image.

67. (Amended) The system of claim 41, wherein said compressor module comprises a wavelet transform engine for applying a wavelet transform to each individual bit plain that comprises the luminosity information.